

1 **In the Claims**

2 Claims 1-14, 19, 21, 22 and 25-28 have been canceled.

3 Claims 15, 17, 20 and 23 are amended.

4 Claims 29-35 have been added.

5 Claims 15-18, 20, 23-24, 29-35 remain in the application for consideration
6 and are listed as follows:

7
8 1. (Canceled).

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10 2. (Canceled).

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12 3. (Canceled).

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14 4. (Canceled).

15
16 5. (Canceled).

17
18 6. (Canceled).

19
20 7. (Canceled).

21
22 8. (Canceled).

23
24 9. (Canceled).

1 10. (Canceled).

2
3 11. (Canceled).

4
5 12. (Canceled).

6
7 13. (Canceled).

8
9 14. (Canceled).

10
11 15. (Currently Amended) A computing system according to claim ~~14~~
12 20, the auto-negotiation data structures comprising:

13 a processing mode data structure, generated by the API to propose a media
14 set of media processing capabilities and/or a split in media processing among
15 system elements to each of the media processing application and the media
16 processing accelerator.

17
18 16. (Original) A computing system according to claim 15, wherein the
19 processing mode data structure is a ConnectMode data structure.

20
21 17. (Currently Amended) A computing system according to claim ~~14~~
22 20, the auto-negotiation data structures comprising:

23 a connection mode data structure, specifying a set of media processing
24 system capabilities, and/or
25

1 a processing configuration data structure, generated by the API to propose
2 a split in media processing between the media processing application and the
3 media processing accelerator.
4

5 18. (Original) A computing system according to claim 17, wherein the
6 processing configuration data structure comprises a ConnectConfig data structure.
7

8 19. (Canceled).
9

10 20. (Currently Amended) ~~A computing system according to claim 19;~~
11 A computing system comprising:

12 a media processing application;

13 a media processing accelerator; and

14 an operating system, executing on the computing system, including an
15 application program interface (API) to facilitate communication between the
16 media processing application and the media processing accelerator, wherein the
17 API includes auto-negotiation data structure(s) and operational data structure(s)
18 to dynamically negotiate at least a set of media processing system capabilities
19 and/or a split in media processing among system elements suitable to each of the
20 media processing application and the media processing accelerator and to
21 processing of received media content, respectively, the operational data
22 structure(s) comprising:

23 one or more residual difference data structures, generated by the
24 API to pass residual difference information between the media processing
25 application and the media processing accelerator for media processing; and

1 one or more control command data structures, generated by the API
2 to pass control commands between the media processing application and
3 the media processing accelerator;

4 wherein the residual difference data structures and the control command
5 data structures are dynamically generated when the auto-negotiation data
6 structures have negotiated a split in media processing between the media
7 processing application and the media processing accelerator.

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9 21. (Canceled).

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11 22. (Canceled).

12
13 23. (Currently Amended) A computing system according to claim 14
14 20, further comprising:

15 a storage medium including a plurality of executable instructions; and
16 an execution unit, coupled to the storage medium, to execute at least a
17 subset of the plurality of executable instructions to implement the operating
18 system and associated API.

19
20 24. (Original) A computing system according to claim 23, wherein the
21 execution unit executes at least a subset of the plurality of executable instructions
22 to implement the media processing application.

23
24 25. (Canceled).

1 26. (Canceled).

2
3 27. (Canceled).

4
5 28. (Canceled).

6
7 29. (New) A computing system comprising:
8 a media processing application;
9 a media processing accelerator; and
10 an operating system, executing on the computing system, including an
11 application program interface (API) to facilitate communication between the
12 media processing application and the media processing accelerator, wherein the
13 API includes auto-negotiation data structure(s) and operational data structure(s)
14 to dynamically negotiate at least a set of media processing system capabilities
15 and/or a split in media processing among system elements suitable to each of the
16 media processing application and the media processing accelerator and to
17 processing of received media content, respectively, the operational data
18 structure(s) comprising:

19 a raw bitstream data structure, generated by the API to pass media
20 content in raw bitstream form from the media processing application to the
21 media processing accelerator, wherein the raw bitstream data structure is
22 dynamically generated when the auto-negotiation data structures have
23 negotiated that the media processing accelerator will perform the media
24 processing.
25

1 30. (New) A computing system according to claim 29, the auto-
2 negotiation data structures comprising:

3 a processing mode data structure, generated by the API to propose a media
4 set of media processing capabilities and/or a split in media processing among
5 system elements to each of the media processing application and the media
6 processing accelerator.

7
8 31. (New) A computing system according to claim 30, wherein the
9 processing mode data structure is a ConnectMode data structure.

10
11 32. (New) A computing system according to claim 29, the auto-
12 negotiation data structures comprising:

13 a connection mode data structure, specifying a set of media processing
14 system capabilities, and/or

15 a processing configuration data structure, generated by the API to propose
16 a split in media processing between the media processing application and the
17 media processing accelerator.

18
19 33. (New) A computing system according to claim 32, wherein the
20 processing configuration data structure comprises a ConnectConfig data structure.

21
22 34. (New) A computing system according to claim 29, further
23 comprising:

24 a storage medium including a plurality of executable instructions; and
25

1 an execution unit, coupled to the storage medium, to execute at least a
2 subset of the plurality of executable instructions to implement the operating
3 system and associated API.

4
5 35. (New) A computing system according to claim 34, wherein the
6 execution unit executes at least a subset of the plurality of executable instructions
7 to implement the media processing application.